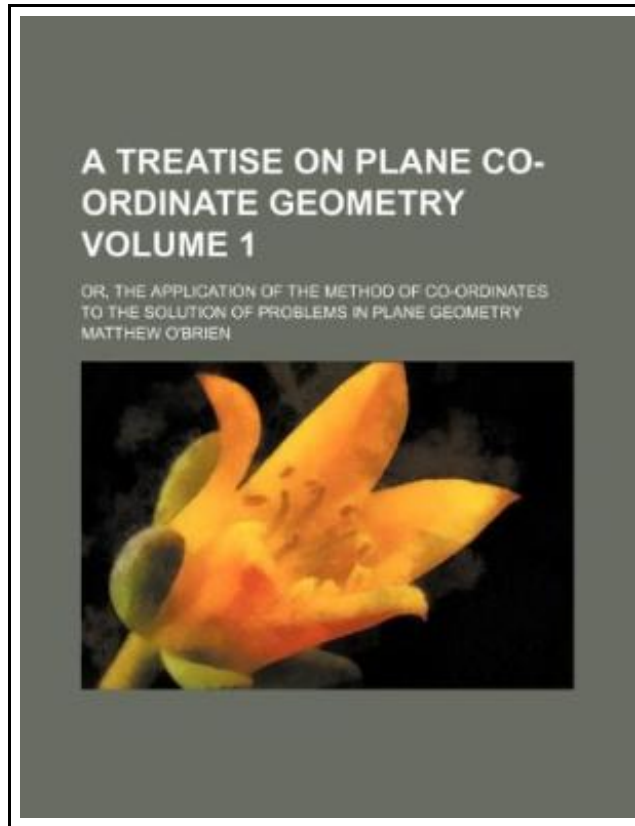


# A Treatise on Plane Co-Ordinate Geometry Volume 1; Or, the Application of the Method of Co-Ordinates to the Solution of Problems in Plane Geometry



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## ***Reviews***




*Undoubtedly, this is the greatest job by any author. It is actually filled with wisdom and knowledge I am quickly could get a pleasure of reading a written book.*  
*(Kade Ankunding)*

## A TREATISE ON PLANE CO-ORDINATE GEOMETRY VOLUME 1; OR, THE APPLICATION OF THE METHOD OF CO-ORDINATES TO THE SOLUTION OF PROBLEMS IN PLANE GEOMETRY



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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1844 Excerpt: .(6) represents either two parallel lines or no locus. Hence it appears that the general equation of the second degree wanting the term  $2Bxy$  represents an ellipse, a parabola, a hyperbola, two right lines, one right line, or an isolated point; except in certain cases where it does not represent any locus. The following proposition will complete the discussion of the general equation. Prop. XLI. 187. To shew that the term  $2Bxy$  may be made to disappear from the general equation of the second degree by turning the axes of co-ordinates through a certain angle. If, in the general equation  $Ax^2 + 2Bxy + 4Cy + 2Dx + 2Ey + F = 0$ . (1), we write  $x \cos \theta - y \sin \theta$  in place of  $x$ , and  $x \sin \theta + y \cos \theta$  in place of  $y$ , we turn the axes through the angle  $\theta$ , leaving the origin unaltered (see Art. 104). When these substitutions for  $x$  and  $y$  are made, (1) may evidently be expanded and arranged so as to assume the form  $Ax^2 + 2B'xy + Cy + 2Dx + 2Ey + F = 0$  (2),  $A, B, C, D, E, F$  being quantities formed from  $A, B, C, D, E, F$ , and  $\theta$ , in arranging the equation in the form (2).  $2B'xy$  is the only term of (2) we have occasion to know for our present purpose; it can only arise from the three first terms of (1), which,...

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